



MHSPHP

Military Health System Population Health Portal



MHSPHP Metrics Forum

14 Nov 2013

Cholesterol Management for Patients with Cardiovascular Conditions (Cholesterol in CVD)

Judith.rosen.1.ctr@us.af.mil

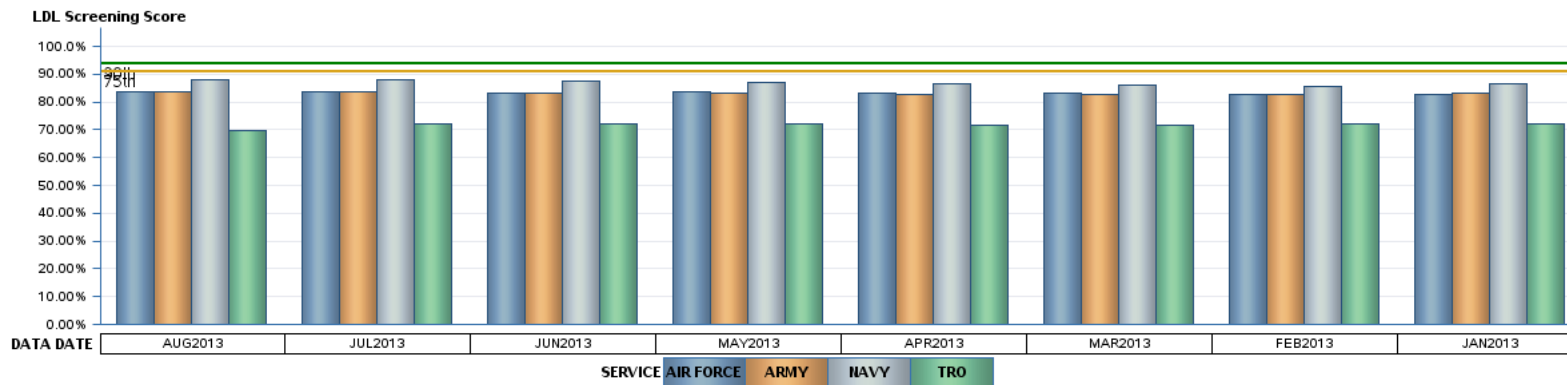


- Methodology of the metric
- Understanding the cholesterol prevalence reports
 - Cholesterol in CVD
 - Lipid Panel
 - Cardiovascular Risk
- FAQs

Cholesterol in CVD

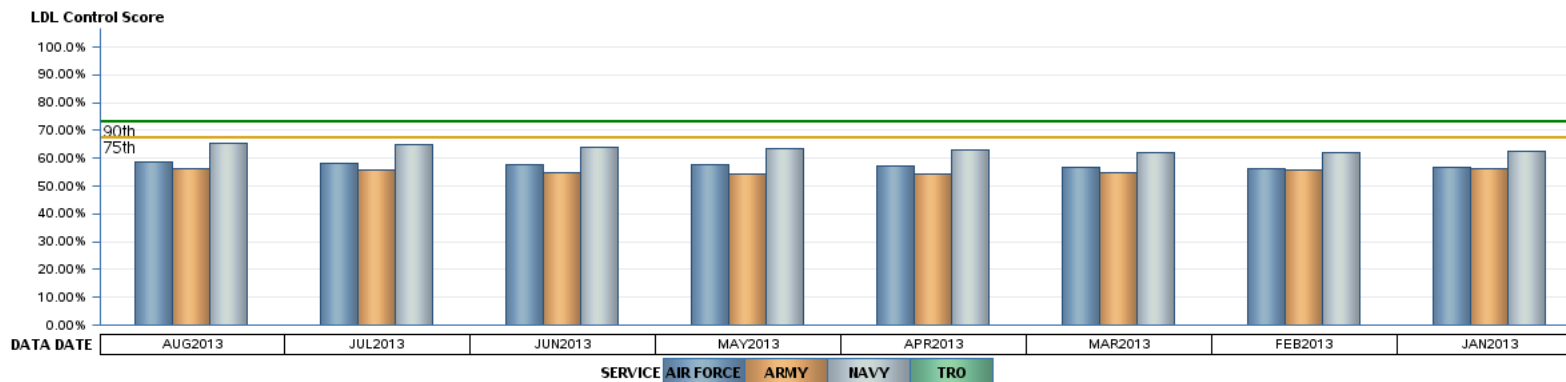
Cholesterol Management: LDL-C Screening

Applied filters: FACILITY (S/D/P) equal to AIR FORCE, ARMY, NAVY, TRO



Cholesterol Management: LDL-C Control (less than 100 mg/dL)

Applied filters: FACILITY (S/D/P) equal to AIR FORCE, ARMY, NAVY, TRO





- The percentage of members 18–75 years of age who were discharged alive for AMI, coronary artery bypass graft (CABG) or percutaneous coronary interventions (PCI) between 13 and 24 months prior to the measurement month, *or* who had a diagnosis of ischemic vascular disease (IVD) during the measurement year and the year prior to the measurement year, who had each of the following during the measurement year:
 - LDL-C screening
 - LDL-C control (<100 mg/dL)

- Denominator:
 - Had AMI, CABG or PCI 13-24 months prior to metric month
 - Ex: For Aug 12 metrics: event occurred between 1 Sep 2010 and 1 Jul 2011
 - Or had at least IVD encounter in each of last 2 yrs
 - For Aug 12 metrics: between 1 Sep 2010 and 31 Aug 2011 and seen again between 1 Sep 2011 and 31 Aug 2012
 - Continuously enrolled in PRIME during each of the last 2 yrs
 - 11 of 12 months= continuous enrolled year
 - Age 18-75 (most 65-75 are plus and not in metric)

Codes to Identify Denominator Patients

- AMI and CABG from inpatient records only
- PCI from any setting

Description	CPT Codes	HCPCS	ICD-9-CM Diagnosis	ICD-9-CM Procedure
AMI (include only inpatient claims)			410.x1	
CABG (include only inpatient claims)	33510-33514, 33516-33519, 33521-33523, 33533-33536	S2205-S2209		36.1, 36.2
PCI	92980, 92982, 92995	G0290		00.66, 36.06, 36.07

- IVD from acute inpatient or outpatient

Description	ICD-9-CM Diagnosis
IVD	411, 413, 414.0, 414.2, 414.8, 414.9, 429.2, 433-434, 440.1, 440.2, 440.4, 444, 445



- LDL-C Screening: Had an LDL-C in the last 12 months
 - EX: For Aug 13 metrics: LDL between 1 Sep 12 and 31 Aug 13
 - LDL Control: most recent LDL in the last year was <100
- May use a calculated or direct LDL



LDL test identification

- Pulled from CHCS Lab file by test name
- Pulled from encounter and claims data by CPT codes: 80061, 83700, 83701, 83704, 83721, 3048F, 3049F, 3050F



Cholesterol related patient lists

CarePoint

Overview [Patient Management] Administration Methodology Documents

Patient Management

- ACTION LISTS
- PREVALENCE REPORTS
 - Asthma Medications
 - Antidepressant Med Mgt
 - Back Pain, Acute
 - Back Pain, Recurrent
 - Low Back Pain Imaging
 - Cardiovascular Disease Risk
 - CHF
 - Cholesterol in CVD
 - Diabetes MicroAlbumins
 - High Utilizers
 - High Utilizers Summary
 - Hypertension
 - Quick Look
 - COPD
 - Depression
 - Lipid Panel
 - Well Child
- OTHER LISTS

FOR OFFICIAL USE ONLY (FOUO) - Privacy Act

ALL under PHPM PREVALENCE REPORTS

- Cardiovascular Disease Risk:
 - No Associated metric
- Cholesterol in CVD:
 - Associated with CM for pts with CV metric
 - Formerly titled “Cholesterol Management in Cardiovascular Conditions”
- Lipid Panel:
 - No associated metric

Cholesterol in CVD Prevalence Report

- Same cardiac event/diagnosis criteria as metric denominator
- Includes PRIME and PLUS patients age 18-75 regardless of continuous enrollment
- List contains most recent in denominator window:
 - AMI Y or N, AMI date, AMI system, AMI source
 - CABG Y or N, CABG date, CABG System, CABG Source
 - PCI Y or N, PCI date, PCI System, PCI Source
 - IVD Y or N, IVD date, IVD System, IVD Source
 - System: network or direct; source is data table name

Lipid Panel List

- Looks at all enrolled patients who had a cholesterol test within the last 2 yrs
- Includes only those whose most recent cholesterol results in last 2 yrs met one of following criteria:
 - HDL/Total CHOL ratio > 5
 - LDL > 130
 - Diabetic with LDL > 100
- Pts fall off list if no test done in last 2 yrs or new lab test doesn't meet criteria



Lipid Panel List limitations

- Drops patients whose values improve to normal through diet, exercise, or meds
- Drops patients with high values and no subsequent follow-up lab within 2 yrs
- Does not include patients on lipid lowering meds who have either recent normal results or no follow-up
- So you cannot interpret drop in total patients as improved outcomes



Cardiovascular Disease Risk

- Includes patients who are on ALL 3 of the following patient lists:
 - DIABETES
 - HYPERTENSION
 - LIPID PANEL (dyslipidemia)
- These patients are very high risk for Cardiovascular disease
 - Consider them your highest risk diabetics



How do I find who is due?

CarePoint My Apps Welcome, ROSEN.JUDITH.I

Overview [Patient Management] Administration Methodology Documents

Patient Management > Cholesterol in CVD

Filters My Filters

Available Data Sources Available Fields

DS_CholesterolMgt (Primary) Choose a field

AND/OR	(	Selected Field	Operator	Value)	
		DS_CholesterolMgt.LDL Date	Less Than	10/25/2012		Delete
OR		DS_CholesterolMgt.LDL Date	Is Null	1/1/2011		Delete

Search Clear

1. This query shows who is over due
2. This query shows who needs testing or evaluation for medical intervention

CarePoint My Apps Welcome, ROSEN.JUDITH.I

Overview [Patient Management] Administration Methodology Documents

Patient Management > Cholesterol in CVD

Filters My Filters

Available Data Sources Available Fields

Choose a data source Choose a field

AND/OR	(	Selected Field	Operator	Value)	
	(	DS_CholesterolMgt.LDL Result	Greater Than Or Equal To	100		Delete
OR		DS_CholesterolMgt.LDL Result	Is Null	0		Delete
OR		DS_CholesterolMgt.LDL Date	Less Than	10/7/2012	)	Delete

Search Clear

- On our patient list, there are 73 patients, but our HEDIS score for August shows 49 patients. Could this be that we have had 24 patients added since August?
 - No, both the list and the metric represent patients who met the denominator event/diagnosis criteria in August. But the list includes PLUS patients and the metric does not.
 - When I filter the age group to remove those over 65, there are 50 patients. Most likely one of the 50 pts was not continuously enrolled for both of the last two years or qualified for Medicare early.



- Is there a way to exclude any of the patients?
 - The only exclusion available for this list is death
 - A change request was submitted for making the other exclusions available for this list/metric; however it is not a funded priority at this time
 - Hopefully will be added within the next year



- If a patient is excluded on a separate measure for OHI, for instance diabetes, does it also exclude them from any other lists, for instance Cholesterol Management?
 - NO, the only exclusion that applies to multiple lists/measures is death. OHI only applies to the measure selected when entering the exclusion



- What exempts a patient? I.e. If they are referred to an off base cardiologist that manages their cardiac conditions (including cholesterol) does that count?
 - Same answer—currently the only exclusion is for death. However, this situation is not a valid exclusion for any measure. Pts who get specialty care off base but still use the MTF as their PCM cannot be excluded. For these patients, the PCM should know if cholesterol is in control and what medications the pt is taking.



MHSPHP

Military Health System Population Health Portal

FAQ: add LDL results

- Can we add LDL results for this list? I don't see an option to add results for this list?
 - Use the TSWF MHSPHP Aim Form (instructions* on how to download and use form are embedded on icon)

**Slides show proposed draft form and do not match the form that you will download*

TRI-SERVICE WORKFLOW TEAM

Standardize to Optimize

Instructions for using the TSWF MHSPHP AIM Form



August 2013

UNCLASSIFIED

1



FAQ: Out of MTF labs

- Pts who have labs done outside of the MTF. My understanding is that the data pulls the date of service but no value. Therefore the patient is considered uncontrolled. Is there any resolution in the works for this issue?
 - Correct, they count as screened but not in control
 - Use the TSWF MHSPHP AIM form in AHLTA to capture the result after scanning report into AHLTA



FAQ: missing labs

- I have a few patients that have LDL values in AHLTA that are not showing up on MHSPHP - how can we fix that?
 - CHCS labs should appear with 48-72 hours after certified final result. If they are not appearing, please contact us (email link in Announcements) to let us know.
 - Very important that your lab (and radiology) is very careful if it renames tests in CHCS. We pull by names. Ok to email us with new names to ensure it will be captured.



FAQ: when do pts fall off list

- Once a patient has a cardiac event or carries a diagnosis of IVD and they are on our list, are they on our list permanently?
 - IVD patients will remain the list as long as a there is at least one acute inpt or outpt encounter with that diagnosis every 12 months
 - These patients will continue to need annual LDLs.
 - The AMI, CABG, PCI patients will fall off when their procedure/event ages beyond 24 months before the metrics date (ex Aug 13 data: event before 1 Sep 2011 not on list)



How do I find top performers?

- Right Click on Service...select Expand all to see all Commands for all services
- Or Just click on the arrow next to your service if you just want to see your all commands for your service
- If you click on the + you will see all commands for that service

Cholesterol Management: LDL-C Screening and LDL-C Control (less than 100 mg/dL)

Applied filters: None

DATA DATE		AUG2013							JUL2013							
		Total Enrolled	LDL Screening Eligible	LDL Screening Valid	LDL Screening Score	LDL Control Eligible	LDL Control Valid	LDL Control Score	Total Enrolled	LDL Screening Eligible	LDL Screening Valid	LDL Screening Score	LDL Control Eligible	LDL Control Valid	LDL Control Score	
SERVICE																
⊕ ⊖ AIR FORCE	⌵				83.45%	6,032	3,529	58.50%	1,068,971	6,121	5,115	83.56%	6,121	3,547	57.95%	1
⊕ ⊖ ARMY	⌵				83.69%	5,769	3,250	56.34%	1,390,233	5,923	4,941	83.42%	5,923	3,296	55.65%	1
⊕ ⊖ COAST GUARD					36.36%	.	.	.	28,794	33	11	33.33%	.	.	.	
⊕ ⊖ NAVY					87.74%	3,019	1,967	65.15%	928,998	3,029	2,662	87.88%	3,029	1,966	64.91%	
⊕ ⊖ TRO					69.94%	.	.	.	1,540,056	18,428	13,317	72.27%	.	.	.	1
Total					76.49%	14,820	8,746	59.01%	4,957,052	33,534	26,046	77.67%	15,073	8,809	58.44%	4
Cholesterol Ma																
Applied filters: None																
DATA DATE		JUL2013							JUN2013							
		LDL	Total	LDL	LDL	LDL	Total	LDL	LDL	LDL	Total	LDL	LDL	LDL	Total	
		Screening		Screening	Screening	Screening		Screening	Screening	Screening		Screening	Screening	Screening		



How do I find top performers? 2

- Right Click on Command
- Select Expand All to see all MTF DMIS
- Or just click on the arrow next to your Command if you just want to

Cholesterol Management: LDL-C Screening and LDL-C Control (less

Applied filters: None

DATA DATE		AUG2013				
SERVICE	COMMAND	Total Enrolled	LDL Screening Eligible	LDL Screening Valid	LDL Screening Score	C
AIR FORCE	ACC	Sort Ascending			81.21%	
	AETC	Sort Descending			85.10%	
	AFDW	Remove All Sorting			80.12%	
	AFGSC				78.42%	
	AFMC	Move			85.82%	
	AFSOC	Align			92.42%	
	AFSPC	Hide COMMAND			87.69%	
	AMC	Change FACILITY (S/D/P) to			80.94%	
	PACAF	Expand All			77.36%	
	USAFA				87.50%	
ARMY	USAFE				85.71%	
	ERMC				93.94%	
	JTF				88.42%	
	NRMC	Rotate Table			81.78%	
	PRMC	94,080	160	130	81.25%	
COAST GUARD	SRMC	480,493	2,579	2,196	85.15%	
	WRMC	374,580	1,242	1,006	81.00%	
	N/A	28,639	33	12	36.36%	
NAVY	JTF	41,166	252	222	88.10%	
	NAVMED_E	351,314	1,634	1,433	87.70%	
	NAVMED_W	290,926	906	798	88.08%	
	NCA	48,074	182	164	90.11%	
	OPSFORCE	203,962	45	32	71.11%	
TRO	TAO EUROPE	8,580	3	1	33.33%	
	TAO PACIFIC	2,789	1	0	0.00%	
	TAO TLAC	6,190	5	3	60.00%	
	TRO NORTH	476,096	4,165	2,898	69.58%	
	TRO SOUTH	629,032	9,998	7,138	71.39%	
	TRO WEST	414,790	3,553	2,357	66.34%	
Total		4,963,927	32,578	24,920	76.49%	



find top performers? 3

- Right click on the column header LDL Screening Score
- Select Sort Columns Data
- Select Sort Descending across Hierarchies to sort high to low across DoD.
- Sort Descending will sort within each command

DATA DATE		AUG2013						
		Total Enrolled	LDL Screening Eligible	LDL Screening Valid	LDL Screening Score	LDL Control Eligible	LDL Control Valid	LDL Control Score
MAND	DMIS							
	+ 0010							
	INST: DAVIS							
	MONTHAN AFB							
	+ 0015							
	INST: BEALE AFB							
	+ 0043							
	INST: TYNDALL AFB							
	+ 0050							
	INST: MOODY AFB	10,487	26	21	8			
	+ 0053							
	INST: MOUNTAIN							



How do I find top performers? 3

- Not best comparison with small denominator locations.
- So, right click on the LDL Screening Eligible Column header and select filter and rank

AUG2013						
	Total Enrolled	LDL Screen Eligible	LDL	LDL	LDL	LDL Control Valid
DMIS						
+ 0074 INST: COLUMBUS AFB	3,995					31
+ 0287 INST: JOINT (NF) BASE PEARL HARBOR-HICKAM	14,110					7
+ 0638 INST: OSAN AB	7,750					0
+ 0639 INST: MISAWA	6,885	2	2	100.0%	2	2
+ 0804 INST: KADENA AB	15,633	3	3	100.0%	3	1
+ 0808 INST: AVIANO AB	7,097	4	4	100.0%	4	1
+ 0606 INST: HEIDELBERG	573	1	1	100.0%	1	1
+ 0611 INST: VICENZA	6,149	5	5	100.0%	5	3
+ 0614 INST: SHAPE	2,221	1	1	100.0%	1	1
+ 1013 INST: BAMBERG	2,675	1	1	100.0%	1	1
+ 1014 INST: ILLESHEIM	2,043	1	1	100.0%	1	0
+ 1015 INST: KATTERBACH	4,028	3	3	100.0%	3	1
+ 1016 INST: GRAFENWOEHR	6,494	2	2	100.0%	2	2
+ 1017 INST: VILSECK	8,908	1	1	100.0%	1	0



How do I find top performers? 4

- Select is greater than as operator
- Enter denominator similar to your denominator. I chose over 30 to look at all top performers
- Click OK

The screenshot shows a web browser window with the URL <https://sas.afms.mil/?xtlvCondition=mf&tupleIndex=1&axisIndex=0&dialogComm...>. The 'Measure Filter or Rank' dialog box is open, showing the following settings:

- ☐ No filter or rank (show all values)
- ☒ Filter
- ☐ Rank
- Show values of: (rows)
- That meet this criterion:
- DATE: AUG2013
- Measure: LDL Screening Eligible
- Operator: Is greater than
- Value: 30

A column-based filter will be removed if the list of items on the columns is modified.

Buttons: OK, Cancel, Help



MHSPHP

Military Health System Population Health Portal

Top Performers

DATA DATE			AUG2013						
SERVICE	COMMAND	DMIS	Total Enrolled	LDL Screening Eligible	LDL Screening Valid	LDL Screening Score	LDL Control Eligible	LDL Control Valid	LDL Control Score
AIR FORCE	AETC	0074 INST: COLUMBUS AFB	3,995	34	34	100.0%	34	31	91.18%
		0046 INST: PATRICK AFB	13,880	196	187	95.41%	196	131	66.84%
NAVY	NAVMED_W	0026 INST: PORT HUENEME	8,602	43	41	95.35%	43	27	62.79%
	NAVMED_E	0092 INST: CHERRY POINT	19,382	80	76	95.00%	80	58	72.50%
		6221 INST: CHESAPEAKE	11,274	60	57	95.00%	60	49	81.67%
	NAVMED_W	0409 INST: NAVAL MEDICAL CENTER SAN DIEGO	4,504	38	36	94.74%	38	25	65.79%
	NAVMED_E	6214 INST: NORFOLK	12,773	67	63	94.03%	67	50	74.63%
AIR FORCE	ACC	0112 INST: DYESS AFB	9,792	49	46	93.88%	49	32	65.31%
NAVY	NAVMED_E	0378 INST: JOINT (AN) EB LITTLE CREEK-FT STORY	21,480	98	92	93.88%	98	82	83.67%
ARMY	SRMC	0098 INST: FT. SILL	22,416	194	182	93.81%	194	107	55.15%



MHSPHP
Military Health System Population Health Portal

How do I isolate my DMIS?

- Right click in data table and select Filter and Rank
- Select Service and click toggle on filter
- Enter DMIS in Search tab or Browse & select DMIS from command
- Click arrow to add it to search then click OK.

Category Filters

Measure Filter or Rank

Categories:

- DATE
- FACILITY (S/D/P)
- GENDER AND AGE
- OHI
- BENCAT

Available values:

Browse Search

Search criteria:

Contains 0074

Search

Name	Parent path
0074	ALL SERVICES.AIR FORCE.AETC

Type:

☐ No filter (show all values)

☒ Filter

☐ Based on member property:

INST

Selected values:

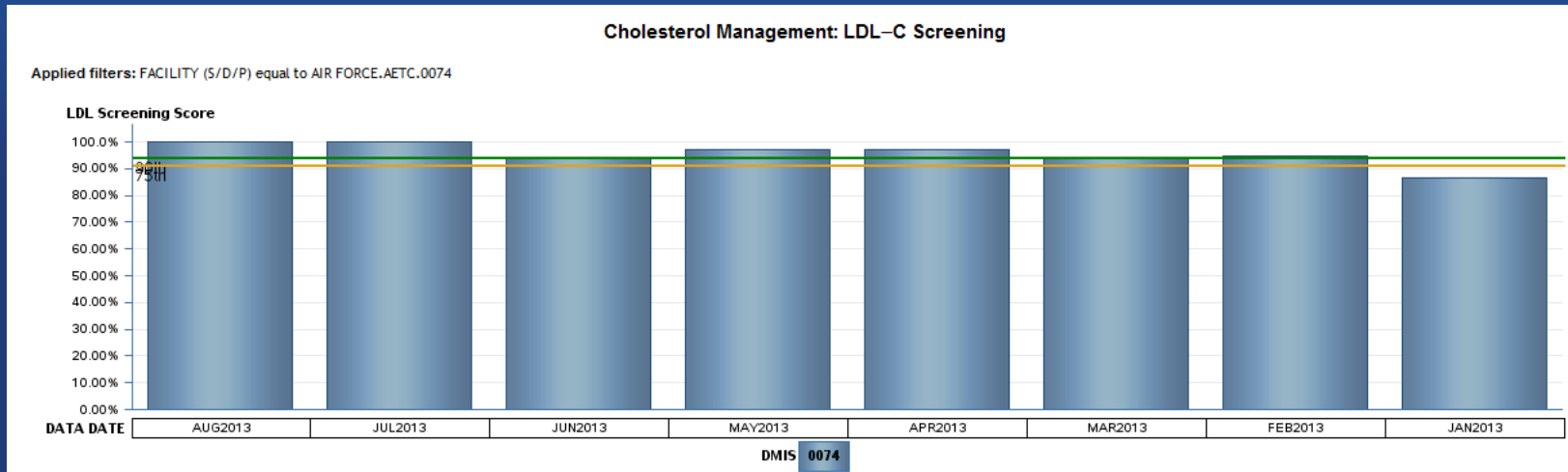
0074 (ALL SERVICES.AIR FORCE.AETC)

OK Cancel Help



Isolate DMIS metrics

- Snip of DMIS 0074 chart





MHSPHP

Military Health System Population Health Portal

- Questions?
 - If time allows, MHSPHP PHDR and/PHPM demonstrations to answer questions